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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,392	06/19/2006	Gary Wingett	042933/311926	8170
826 7590 07/18/2008 ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000			EXAMINER	
			FISHMAN, MARINA	
	XYON STREET, SUIT NC 28280-4000	E 4000	ART UNIT	PAPER NUMBER
			2832	
			MAIL DATE	DELIVERY MODE
			07/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/583,392	WINGETT, GARY
Office Action Summary	Examiner	Art Unit
	Marina Fishman	2832
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 21 N	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1 – 4 and 6 - 18 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1 – 4 and 6 - 18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	cepted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is objected to by the I	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

General status

1. This is a First Action on the Merits. Claims 1 - 4 and 6 - 18 are pending in the case and are being examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 4, 6, 12 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamoto [US 5,744,765].

Regarding Claim 1, Yamamoto, Figures 8-12, discloses an annular dome switch having:

- an upper dome sheet [5];
- an underlying substrate [2];
- wherein the upper dome sheet extends from the underlying substrate defining a raised cross-sectional shape, the raised cross-sectional shape extending at least substantially along a length of an annular shaped path [Figure 9];
- wherein the underlying substrate comprises an annular concentric connection pads [Figure 12, 65A, 65B]; and

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the upper dome sheet is configured to make electrical contact with the connection pads [65A, 65B] of the underlying substrate when the upper dome sheet is depressed towards the underlying substrate.

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Regarding Claim 2, Yamamoto discloses the dome switch surrounds at least one other dome switch [3, 8]. Regarding Claims 3 and 4, Yamamoto discloses the dome switch comprises partial or complete annulus [complete annulus includes a partial annulus]. Regarding Claim 6, Yamamoto discloses a select means [8, 12] is activated upon actuation of the annular dome switch. Regarding Claim 12, Yamamoto discloses an input apparatus comprising an annular_dome switch as claimed in claim 1. Regarding Claim 18, Yamamoto discloses the activation of the dome switch comprises temporarily modifying the electrically conductive or electrically capacitive properties of an electronic element.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 7-11 and 13-17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto [US 5,744,765] in view of Chandler [US 4,246,452].

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Regarding Claim 7-11 and 13-15 and 17, Yamamoto discloses all the elements of claimed invention except for a rotator wheel. Chandler discloses a rotator wheel [22] to activate the switches. Yamamoto discloses switch to be an annular switch and Chandler discloses rotator wheel with a planar upper surface, which is exposed and can be accessed by a user. Chandler also discloses use of decoder and processor to detect the rotational movement of the wheel. It would have been obvious to one of ordinary skill in the art to use a rotator wheel, instead of tilting knob in Yamamoto, as suggested by Chandler, so as to provide a directional signal control [Chandler column 2, line27-28]. Regarding Claim 16, the bridge contact disclosed by Yamamoto though stationary, providing bridge contact on pushing section [33] would be a matter of design choice, so as to reduce number of parts.

Response to Arguments

5. Applicant's arguments filed 05/21/2008 have been fully considered but they are not persuasive.

Applicant has argued that Yamamoto fails to disclose the underlying substrate comprising two underlying annular concentric connection pads as recited by independent Claim 1. Examiner respectfully disagrees. Indeed, Yamamoto teaches that at least some of the contact points 4 are electrically isolated. Claim 1, only recites two annular concentric conductive pads; the Claim does not require the pads to be continuous. The reference of Yamaoto in Figures 10, 12 discloses that. In addition column 11, lines 59-62 suggests that only selecting switch section [10] being provided and operates as ON/Off, in such a

case, there is no need for the outer contacts [65A] to be isolated and a continuous outer ring [65A] can be provided. As to the 103(a) rejection, the Applicant has argued that a person having skill in the art would not be motivated to combine the references. The Examiner respectfully disagrees. The Chandler teaches a number of elements, which a person of skill in the art, will be motivated to use and hence will combine with the Yamamoto reference.

Examiner wishes to point to US patent to Inoue et al. [US 6,750,408], which is an art of record, which discloses two continuous inner and outer conductors.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Fishman whose telephone number is (571)272-1991. The examiner can normally be reached on 7-5 M-T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvin G Enad/ Supervisory Patent Examiner, Art Unit 2832

/Marina Fishman/ Examiner, Art Unit 2832 July 8, 2008